CLAIMS:

- 1-19. (cancelled)
- 20. (Currently Amended) A waste gas cleaning system for removing harmful and/or toxic gases from a gas stream, comprising:
 - a reaction chamber having an inlet for receiving a gas stream to be treated and an outlet;
- a plasma source coupled to said reaction chamber for providing excitation energy to said chamber and form a plasma therein; and
- a liquid jet <u>pump having a suction port connected to arranged at</u> said reaction chamber outlet and generating negative pressure in said reaction chamber, said liquid jet <u>pump</u> being arranged to draw treated gases out of said reaction chamber mixed with liquid from said liquid jet.
- 21. (Currently Amended) A waste gas cleaning system as specified in claim 20 wherein said liquid jet pump has a larger cross-section than the cross-section of said outlet.
- 22. (Currently Amended) A waste gas cleaning system as specified in claim 20 wherein said liquid jet <u>pump</u> as arranged to generate negative pressure in the range of 30 mbar to atmospheric pressure.
- 23. (Previously presented) A waste gas cleaning system as specified in Claim 22, wherein said liquid jet pump is provided with a sorption medium.

- 24. (Previously presented) A waste gas cleaning system as specified in Claim 23, wherein there is provided a recirculating system including said liquid jet for said sorption medium.
- 25. (Previously presented) A waste gas cleaning system as specified in Claim 24, wherein said recirculating system is provided with a cooling system.
- 26 (Previously presented) A waste gas cleaning system as specified in Claim 24 wherein said recirculating system includes a controllable circulation pump for controlling flow rate of the sorption medium.
- 27. (Previously presented) A waste gas cleaning system as specified in Claim 26, wherein said circulation pump is a compressed air-driven diaphragm pump.
- 28. (Previously presented) A waste gas cleaning system as specified in any of Claims 20 to 27 wherein there is provided a secondary air inlet to said reaction chamber and wherein said secondary air inlet is controlled to control said negative pressure in said reaction chamber.
- 29. (Previously presented) A waste gas cleaning system according to any of Claims 20 to 27 wherein there is provided at least one inlet for additional gases to at least one of said reaction chamber and said plasma source.
- 30. (Previously presented) A waste gas cleaning system according to Claim 29 wherein said at least one inlet for additional gas is connected with a source for one of oxygen and hydrogen.

- 31 (Previously presented). A waste gas cleaning system according to Claim 29, wherein said at least one inlet for additional gas is connected with a source for water vapor.
- 32 (Previously presented). A waste gas cleaning system according to any of Claims 20 to 27 wherein said plasma source provides a non-thermal plasma.
- 33. (Previously presented) A waste gas cleaning system according to any of Claims 20 to 27 wherein said plasma source has an excitation frequency in the microwave range.
- 34. (Previously presented) A waste gas cleaning system according to Claim 33, wherein said plasma source has an excitation frequency of 2.45 GHz.
- 35. (Previously presented) A waste gas cleaning system according to Claim 33 wherein said plasma source has a microwave power of up to 6 kW.
- 36. (Previously presented) A waste gas cleaning system according to any of Claims 20 to 27 wherein a pH electrode is arranged at an outlet at the liquid jet pump and wherein said pH electrode is connected with a control for a metering pump for providing a metered addition of one of alkaline and acid solution into the liquid jet.
- 37 (Currently amedned). A waste gas cleaning system according to any of Claims 23 to 27 wherein said liquid jet <u>pump</u> is connected with a reservoir for the sorption medium and wherein a suction line connects said reservoir with an exhaust for the cleaned waste gas.
- 38 (Previously presented). A waste gas cleaning system according to Claim 37, wherein said suction line includes at least one aerosol filter.